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II. *Extract of a Letter, dated Vienna April 4, 1767, from Father Joseph Liesganig, Jesuit, to Dr. Bevis, F. R. S. containing a short Account of the Measurement of Three Degrees of Latitude under the Meridian of Vienna.*

Read Feb. 18,
1767.

POST paucas septimanas prelo committam opusculum meum de dimensione trium fere graduum meridiani nostri, Augustæ nostræ jussu a me suscepta. Continetur arcus totus quem dimensus sum, inter pagum Sobieschiz (Brunnâ, Moraviæ urbe, $3\frac{1}{2}$ borealiorem) ac inter Varasdinum Croatiae. Arcum terrestrem definivi 22 triangulis sat magnis, si ea demam, quæ duas bases (quarum quævis 6000 hexapedarum Parisinarum superat) cum triangulorum serie connectunt. Arcûs cœlestis amplitudinem determinavi per observationes plurimum fixarum, quas feci sectore decem pedum, non in extremis duntaxat arcûs mei, locis Sobieschizii videlicet et Varasdini, verum etiam Brunnæ, Viennæ, et Græcii, Styriæ metropoli: quo magnitudinem unius gradûs, tum ex arcu toto, tum ex interjectis partialibus arcubus deducere liceret. Nec imprudenter id a me actum esse eventus docuit: nam gradum inter Viennam et Græcium interceptum 186 hexapedas Parisinas minorem reperi eo, qui Viennâ Brunnam, Boream versus porrigitur, Varasdinensem fere 300 hexapedis Brunnenfi majorem. Insignem hanc differentiam attractioni ingentium Styriæ superioris ac inferioris montium, quibus Græcium subjicitur, tribuendam esse ostendam. Adjecta pagina compendio totius laboris ac opusculi mei summam exhibet.

Arcus Meridiani Cœlestis.

| | α Dracon. | γ Dracon. | δ Cyni. | ε Cyni. | Capra. | β Aurigæ. | Medium. |
|---|----------------|----------------|----------------|----------------|----------------|----------------|-----------|
| Inter Sobieschiz, et Brunnam et Viennam | 0 1 " 0 3 35,8 | 0 1 " 0 3 35,8 | 0 1 " 0 3 35,8 | 0 1 " 0 3 35,8 | 0 1 " 0 3 35,8 | 0 1 " 0 3 35,8 | 0 3 35,8 |
| et Viennam | 1 2 29,6 | 1 2 29,6 | 1 2 29,6 | 1 2 29,6 | 1 2 27,8 | 1 2 27,8 | 1 2 29,0 |
| et Græcium | 2 10 54,3 | 2 10 54,3 | 2 10 54,3 | 2 10 54,3 | 2 10 55,8 | 2 10 55,8 | 2 10 55,0 |
| et Varadind. | 0 58 53,2 | 0 58 53,6 | 0 58 53,6 | 0 58 53,6 | 2 56 45,7 | 2 56 45,7 | 0 58 53,5 |
| Inter Brunnam et Viennam | 0 58 53,2 | 0 58 53,6 | 0 58 53,6 | 0 58 53,6 | 2 56 45,7 | 2 56 45,7 | 0 58 53,5 |
| et Græcium | 2 7 18,1 | 2 7 18,5 | 2 7 18,5 | 2 7 18,5 | 2 7 18,5 | 2 7 18,5 | 2 7 18,3 |
| Inter Viennam et Græcium | 1 8 24,9 | 1 8 24,7 | 1 8 24,7 | 1 8 24,7 | 1 8 28,0 | 1 8 28,0 | 1 8 25,8 |
| et Varadind. | 0 58 53,2 | 0 58 53,6 | 0 58 53,6 | 0 58 53,6 | 2 56 45,7 | 2 56 45,7 | 0 58 53,5 |
| Inter Græcium et Varadind. | 0 45 50,5 | 0 45 48,9 | 0 45 48,9 | 0 45 48,9 | 50,1 | 50,1 | 0 45 49,9 |

| | Amplit. arcus cœlestis. | Diffantia parallelorum. | Ex serie triangulorum. | Hex. Vienn. | Magnitudo unius Gradus. Hex. Paris. | Red. ad libell. maris. |
|-------------------------------|-------------------------|-------------------------|------------------------|-------------|-------------------------------------|------------------------|
| Inter Sobieschiz et Varadind. | 2 56 45,8 | 172808,1 | — | 58657,5 | 57079,8 | 57077,4 |
| Inter Sobieschiz et Viennam | 1 2 29,0 | 610940 | I. | 58665,9 | 57088,0 | 57085,6 |
| | | 61090,7 | II. | 58662,7 | 57084,9 | 57082,5 |
| | | 61088,8 | III. | 58660,9 | 57083,1 | 57080,7 |
| Inter Brunnam et Viennam | 0 58 53,5 | 57588,5 | — | 58672,3 | 57094,2 | 57091,8 |
| Inter Viennam et Græcium | 1 8 25,8 | 66681,8 | Medium | 58665,4 | 57087,5 | 57085,1 |
| vel 1 8 24,8 | 1 8 24,8 | — | — | 58467,2 | 56894,6 | 56892,2 |
| | | — | — | 58481,4 | 56908,5 | 56906,1 |
| Inter Græcium et Varadind. | 0 45 49,9 | 45032,3 | Medium | 58474,3 | 56901,5 | 56899,1 |
| | | — | — | 58953,5 | 57367,9 | 57365,5 |

Received